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(3) Construction of machinery: A one-semester, 60-hour study

(3) Construction of machinery: A one-semester, 60-hour study course with about 30 hours of laboratory work. Work project assigned to the class calculate and construct a Morse telegraph apparatus.

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(4) Strength of materials: A two-semester course, with 140 hours of theory and 160 hours of laboratory research.

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- (5) Theory of electrotechnics: A four-semester course, begun in the fourth semester, which included 220 hours of theory and 120 hours of practical training; the latter included about 100 hours of laboratory work.
- (6) Internal combustion engines: One semester, with 60 hours of theory and 30 hours practical training.

C. Third year

(1) Electrical measurements: One semester, with 60 hours of theory and 40 hours of laboratory work.

- (2) Electrotechnical materials: One semester, with 50 hours of theory and 30 hours of laboratory work.
- (3) Electric apparatus: A two-semester course, including 150 hours of theory and 80 hours of laboratory.
- (4) Electronic tubes: One semester, including 80 hours of theory and 80 hours of laboratory work.
- (5) Radiotechnology: A three-semester, 160-hour course, including 40 hours of problem solving.
- 40 hours of problem solving.

 (6) Radiotechnical measurements: A two-semester course including 100 hours of theory and 60 hours of laboratory work.
- (7) Low-frequency amplifiers: A one-semester course, with 60 hours of theory and 40 hours of laboratory work. The class project assigned was to calculate a low-frequency, 100-watt amplifier.
- (8) Radio broadcasting: A three-semester course, with 200 hours of theory and 60 hours of laboratory. The project completed during the course consisted of a large radio station.
- (9) Mechanics of radio transmitters: A three-semester course, with 200 hours of theory and 100 hours of laboratory work. The course included one month of practical training in a broadcasting station and a work project dealing with a small telephonetelegraph transmitter.
- (10) Mechanics of radio receivers: A three-semester course, with 200 hours of theory and 100 hours of laboratory research. It included one month's training in a radio receiving station and building a first-class short-wave receiving set to operate between 20-and 70-meter wave lengths.
- (11) Telegraph-telephone communications: One semester, with two separate courses consisting of 120 hours of theory and 60 hours of laboratory work.

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D. Fourth year

In addition to pursuing courses of study begun during the previous term, the students were taught the following subjects:

- (1) Current flow in the radio tube: A two-semester course, with 100 hours of theory and 30 hours of laboratory work.
- (2) Propagation of radio waves: A two-semester course, with 120 hours of theory and 100 hours devoted to laboratory research.
- (3) Organization and planning of enterprises: A one-semester course, with 50 hours of theory and 30 hours devoted to the solution of problems.
- (4) Electro-acoustics: A one-semester course, with 70 hours of theory and 20 of laboratory research.
- (5) Television: A two-semester course, begun during the eighth semester; it was designed for students who specialized in advanced television. It included 180 hours of theory and 60 hours of laboratory work.

E. Fifth year

The following subjects were taught during the fifth year:

- Radio networks: A one-semester course, with 70 hours of theory and 30 hours of problems.
- (2) Principles of radio antennas: A two-semester course, with 120 hours of theory and 50 hours of laboratory.
- (3) Economics of communications: A one-semester course, with 70 hours of theory and 20 hours devoted to problems.
- (4) Security techniques: A one-semester course, with 50 hours of practical training.

The students devoted the second semester of the fifth term mainly to work on a specific project; four months were alloted to the project development and research, under the guidance of a professor-consultant, and two months were spent in practical training at a work-center related to the chosen project. The students' theses were first reviewed by a specialist and then turned over to a state examining board, whereafter the student appeared before the board to support his proposition. The examining board was generally composed of school professors and doctors of theoretical science from the Institute of Scientific Investigation. $\sqrt{\operatorname{sic}/}$.

3. The following additional research opportunities, moreover, were made available to students at the Institute: (a) The faculty organized non-political scientific study circles, which students could attend free of charge in order to pursue some specialized course of study and (b) the professors in each branch of learning held monthly meetings for the purpose of stimulating research on scientific problems. At the conference, student members of the scientific study circles, working either individually or in groups, selected topics from a list prepared by the faculty and wrote theses. The subjects generally dealt with scientific matters or non-resolved industrial problems n and were based on inquiries stemming from factories or the Institute for Scientific Investigation. The theses were developed under the professors' guidance and, when complete, were reviewed and debated pro and con

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